1646

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/346,069

DAIL: 11/20/2000

TTME: 08:42:49

Input Set : A:\A62326-1.app

Output Set: N:\CRF3\11202000\I346069.raw



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```
3 <110> APPLICANT: Keyt, Bruce A.
         Nguyen, Francis H.
        Ferrara, Napoleone
 7 <120> LITTLE OF INVENTION: NUCLEIC ACIDS ENCODING VARIANTS OF VASCULAR ENDOTHELIAL
        CFLI. GROWTH FACTOR
10 <130> FILE REFERENCE: A-62326-2
12 <140> CURRENT APPLICATION NUMBER: 09/346.069
13 <141> CURRENT FILING DAIE: 1999-07-01
15 <150> PRIOR APPLICATION NUMBER: 08/567,200
16 <151> PRIOR FILING DAFE: 1995-12-05
18 <150> PRIOR APPLICATION NUMBER: 60/002,827
19 <151> PRIOR FILING DATE: 1995-08-25
21 <160> NUMBER OF SEQ ID NOS: 42
23 <170> SOFIWARE: PatentIn Ver. 2.1
25 <210> SEO ID NO: 1
26 <211> LENGTH: 990
27 <212> TYPE: DNA
28 <213> ORGANISM: Bovine
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (57)..(632)
34 <400> SEQUENCE: 1
35 cagtgtgctg gcggcccggc gcgagccggc ccggccccgg tcgggcctcc gaaacc atg 59
37
39 aac tit etg etg tet tgg gtg cat tgg age ete gee ttg etg ete tae
40 Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu Tyr
                                    10
43 etc cac cat gee aag Lgg tee eag get gea eec atg gea gaa gga
44 Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly Gly
                                                  30
    20
                        25
                                                                       203
47 ggg cag aat cat cac gaa gtg gtg aag ttc atg gat gtc tat cag cgc
48 Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln Arg 49 35 40 45
51 age tac tge cat cea ate gag ace etg gtg gac ate tte cag gag tac 52 Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Glu Tyr
                        55
                                            60
                                                                       299
55 cct gat gag atc gag tac atc ttc aag cca tcc tgt gtg ccc ctg atg
56 Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu Met 57 70 75 80
59 cga tgc ggg ggc tgc tgc aat gac gag ggc ctg gag tgt gtg ccc act
60 Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro Thr
                                    90
63 gag gag too abo ato ace atg cag att atg egg atc aaa cot cac caa
64 Glu Glu Ser Asn The Thr Met Gln The Met Arg The Lys Pro His Gln
   100
                            1.05
                                                                       443
67 ggc cag cac ata gga gag atg agc ttc cta cag cac aac aau tgt gaa
```

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Input Set : A:\A62326-1.app

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68 Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys Glu
                                                  125
                            120
69 115
71 tgc aga cea aag aaa gat aga gca aga caa gaa aat cee tgt ggg cet
72 3/s Arg Pro Lys Lys Asp Arg Ala Arg Glu Glu Asn Pro Cys Gly Pro 73 130 135 140 145
73 130
75 tgc tca gag egg aga aag cat ttg tit gta caa gat eeg eag aeg tgt
                                                                            539
76 Cys Ser Glu Arg Arg Lys His Leu Phe Val Gln Asp Pro Gln 1hr Cys
77 150 155 160
                                                                            587
79 ada tgt tee tge ada aac aca gae teg egt tge aag geg agg eag ett
80 Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg Glm Leu 81 165 170 175
83 gag tta aac gaa cgt act tgc aga tgt gac aag ccg agg cgg tga/
84 Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg
                                                    190
                               185
85 180
87 geogggeagg aggaaggage eteceteagg gtitegggaa eeagatetet caccaggaaa 692
89 gactgataca gaacgatega tacagaaacc aegetgeege caccacacca teaccatega 752
91 cagaacagto ottaatocag aaacotgaaa tgaaggaaga ggagactotg ogcagagoac 812
93 tttgggteeg gagggegaga eteeggegga ageatteeeg ggegggtgae eeageaeggt 872
95 ccctcttgga attggattcg ccattttatt fttcttgcfg ctaaatcacc gaqcccggaa 932
97 gattagagag tittatitot gygaticotg tagacacaco goggoogoca goacacty 990
100 <210> SEO 1D NO: 2
101 <211> LENGTH: 191
102 <212> TYPE: PRI
103 <213> ORGANISM: Bovine
105 <400> SEQUENCE: 2
106 Met Asn Phe Leu Leu Ser Trp Val His Irp Ser Leu Ala Leu Leu
107 1 5
                                        1.0
108 Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
109 20 25 30
110 Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln 111 35 40 45
112 Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
113 50 55 60
114 Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
115 65 70 75 80
116 Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Vol Pro 117 \phantom{-}85\phantom{+}90\phantom{+}95\phantom{+}
118 fhr Glu Glu Ser Asn 11e Thr Met Gln 11e Met Arg Ile Lys Pro His
119 100 105 110
120 Gln Gly Gln His Lie Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
121 115 120 1.25
122 Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Asn Pro Cys Gly
123 130 135 140
124 Pro Cys Ser Glu Arg Arg Lys His Leu Phe Val Gln Asp Pro Gln Thr
125 145 150 150 160
126 Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg Gln
127 165 170 175
128 Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg
                 180
```

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DA1L: 11/20/2000

PATENT APPLICATION: US/09/346,069

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Input Set : A:\A62326-1.app

Output Set: N:\CRF3\11202000\I346069.raw

133 <210> SEQ ID NO: 3 134 <211> LENGIH: 59 135 -212> TYPE: DNA 136 <213> ORGANISH: Artificial Sequence 138 <220> FEATURE: 139 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic. 141 <400> SEQUENCE: 3 142 octatggetg aaggeggeea gaageeteae gaagtggtga agtteatgga egtgtatea 59 145 <210> SEQ ID NO: 4 146 <211> LENGTH: 99 147 <212> TYPE: DNA 148 <213> ORGANISM: Artificial Sequence 150 <220> FEATURE: 15.1 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic. 153 <400> SEQUENCE: 4 154 agtaqcaaqc ttqacgtgtq qcaqqcttqa qatetqqcca tacacttgaq tgacaatgac 60

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- 158 <210> SEQ ID NO: 5 159 <211> LENGTH: 30
- 160 <212> TYPE: DNA 161 <213> ORGANISM: Artificial Sequence

155 atccaetttg cetttetete caeaggtgte caeteceag

- 163 <220> FFATURE:
- 164 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
- 166 <400> SEQUENCE: 5
- 30 167 aggetgetge agttegaegt gggagtggae
- 170 <210> SEQ ID NO: 6
- 171 <211> LENGTH: 24
- 172 <212> TYPE: DNA
- 173 <213> ORGANISM: Artificial Sequence
- 175 <220> FEATURE:
- 176 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
- 178 <400> SEQUENCE: 6
- 179 coctecteeg getgecatgg gtge

24

- 182 <210> SEO ID NO: 7
- 183 <211> LENGTH: 30
- 184 <212> TYPE: DNA
- 185 <213> ORGANISM: Artificial Sequence
- 187 <220> FEATURE:
- 188 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
- 190 <400> SEQUENCE: 7
- 191 cttcaccacg gcggcggcat tctgccctcc
- 194 <210> SEQ ID NO: 8
- 195 <211> LENGTH: 33 196 <212> TYPE: DNA
- 197 <213> ORGANTSM: Artificial Sequence
- 199 <220> FEATURE: 200 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
- 202 <400> SEQUENCE: 8 203 ctgatagacy gocatgaagg ccaccactte gtg

33

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DAIE: 11/20/2000

PATENT APPLICATION: US/09/346,069

TIME: 08:42:49

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Input. Set : A:\A62326-1.app

Output Set: N:\CRF3\11202000\1346069.raw

206 <210> SEQ ID NO: 9 207 <211> LENGIH: 24

208 <212> TYPE: DNA

209 <213> OPGANISM: Artificial Sequence

211 <220> FEATURE:

212 <223> OIBER INFORMATION: Description of Artificial Sequence: Synthetic.

214 <400> SEQUENCE: 9

215 geagtagetg geetgataga cate

218 <210> SEQ 1D NO: 10

219 <211> LENGTH: 33

220 <212> TYPE: DNA

221 <213> ORGANTSM: Artificial Sequence

223 <220> PEATURE:

224 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.

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227 cacragggtg gcgattgggg cgcagtagct gcg

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231 <211> LENGTH: 36

232 <212> TYPE: DNA

233 <213> ORGANISM: Artificial Sequence

235 <220> FEATURE:

236 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.

238 <400> SEQUENCE: 11 36

239 atcagggtag geetggaaga tggecaccag ggtete

242 <210> SEQ 1D NO: 12 243 <211> LENGTH: 33

244 <212> TYPE: DNA

245 <213> ORGANISM: Artificial Sequence

247 <220> FEATURE:

248 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.

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254 <210> SEQ ID NO: 13

255 <211> LENGTH: 24

256 <212> TYPE: DNA

257 <213> ORGANISM: Artificial Sequence

259 <220> FEATURE:

260 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.

262 <400> SEQUENCE: 13

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266 <210> SEQ ID NO: 14

267 <211> LENGTH: 24

268 <212> TYPE: DNA

269 <213> ORGANISM: Artificial Sequence

271 <220> FEATURE:

272 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.

274 <400> SEQUENCE: 14

275 gcccccgcag gccatcaggg gcac

278 <210> SEQ ID NO: 15

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RAW SEQUENCE LISTING

DATE: 11/20/2600

PATENT APPLICATION: US/09/346,069

TIME: 08:42:49

27

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24

Input Set : A:\A62326-1.app

Output Set: N:\CRF3\11202000\I346069.raw

279 <211> LENGIH: 36

280 <212> TYPE: DNA

291 (213> ORGANTSM: Artificial Sequence

283 <220> FEATURE:

284 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.

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290 <210> SEO 1D NO: 16 291 <211> LENGIH: 27

292 <212> TYPE: DNA

293 <213> ORGANISM: Artificial Sequence

295 <220> FEATURE:

296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.

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299 qatqttqgaq qeqqcaqtgq geacaca

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303 <211> LENGTH: 36

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308 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.

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311 ctggccttgg gcaggggcqa tggccataat ctgcat

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315 <211> LENGTH: 33

316 <212> TYPE: DNA

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327 <211> LENGTH: 30

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329 <213> ORGANISM: Artificial Sequence

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332 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.

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335 geattcacag geyttygeet gtaggaaget

338 <210> SEQ ID NO: 20

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341 <213> ORGANISM: Artificial Sequence

343 <220> FEATURE:

344 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.

346 <400> SEQUENCE: 20

347 tggtctgcag gcacatttgt tgtg

350 <210> SEQ ID NO: 21

351 <211> LENGTH: 33

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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/346,069 DAIE: 11/20/2000 TIME: 08:42:50

Input Set : A:\A62326-1.app
Output Spt: N:\CRF3\11202000\1346069.raw